

13



FIG. 1A

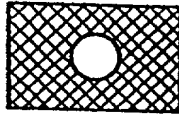


FIG. 1B

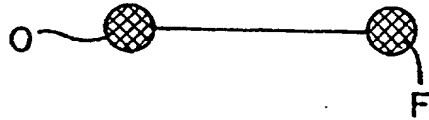


FIG. 1C

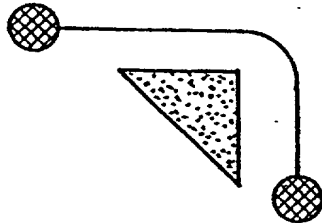


FIG. 1D



FIG. 1E

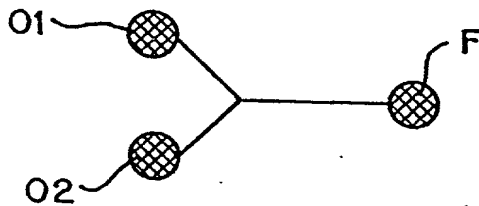


FIG. 1F

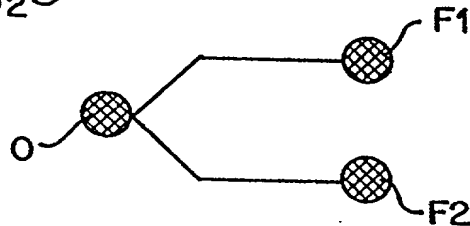


FIG. 1G

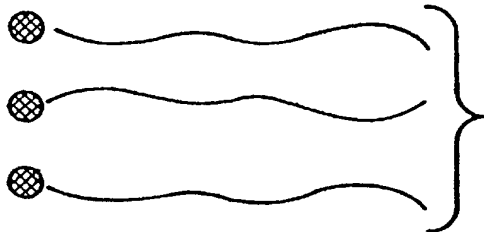
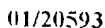


FIG. 1H

1005004 40586001



This image shows a highly textured, black and white surface, likely a book cover or endpaper. The texture is dense and irregular, composed of many small, dark, irregular shapes (possibly ink splatters or paper grain) scattered across a lighter background. The overall effect is a noisy, high-contrast pattern that fills the entire frame.

22

[illegible]



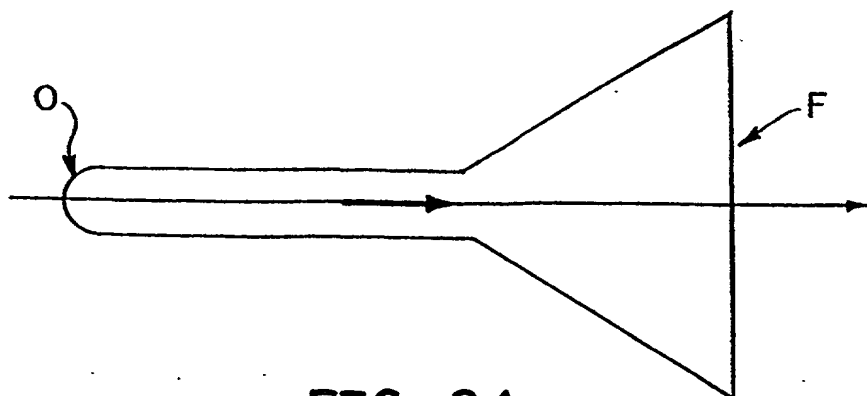
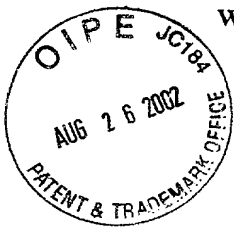


FIG. 3A

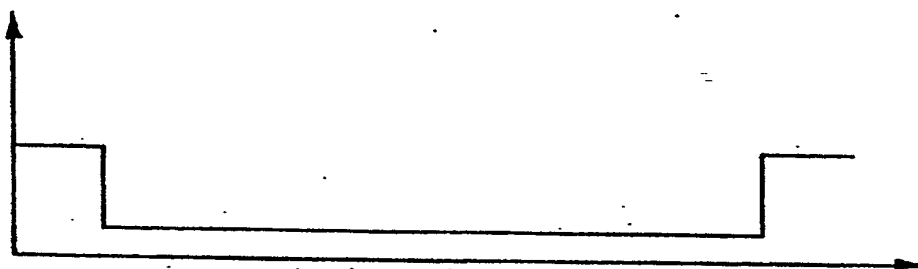


FIG. 3B

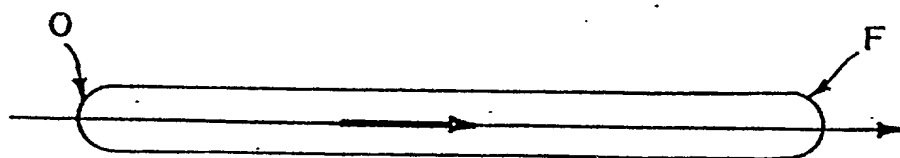


FIG. 3C

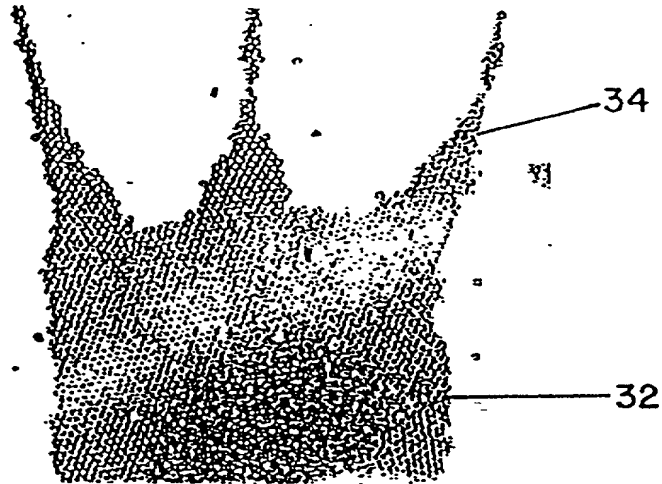


FIG. 3D

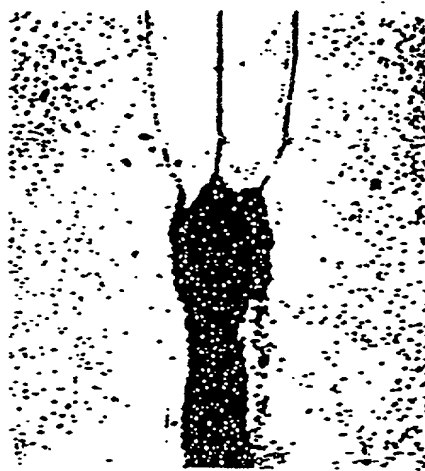




FIG. 4A

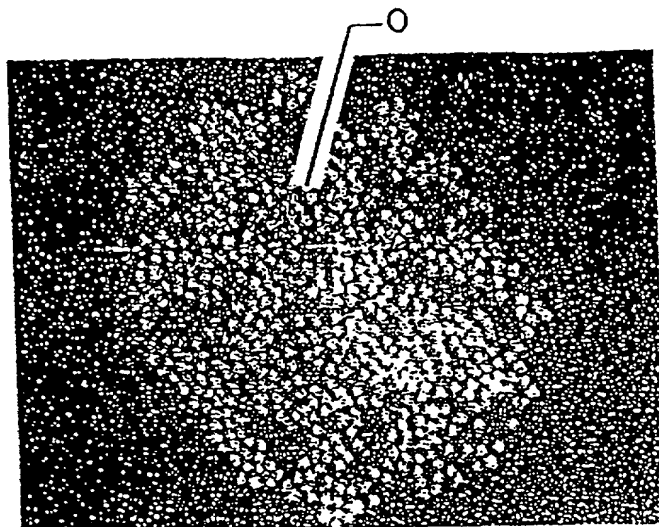
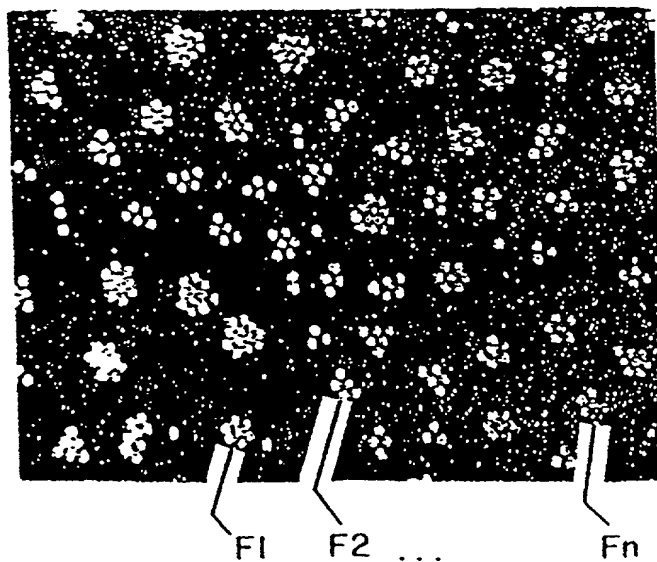


FIG. 4B



40566001

A high-contrast, black and white micrograph showing a device structure. A bright, rectangular feature is labeled 54. A bracketed region to its left is labeled 56. A bright, circular feature in the lower right is labeled 52. The background is dark and grainy.

This micrograph shows a cross-section of a composite material. The matrix is dark and granular, containing many small, light-colored particles. A white, V-shaped structure is visible, with label 72 pointing to the central part and label 74 pointing to the outer edges.



FIG. 6A

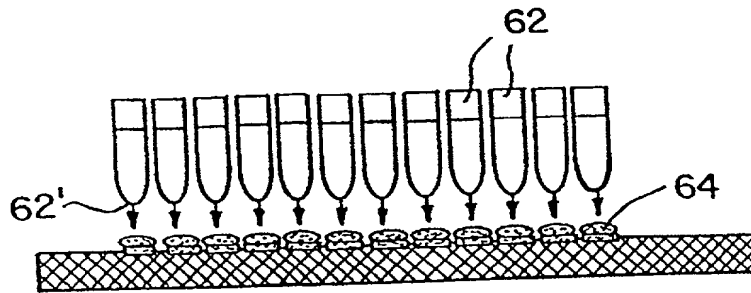


FIG. 6B

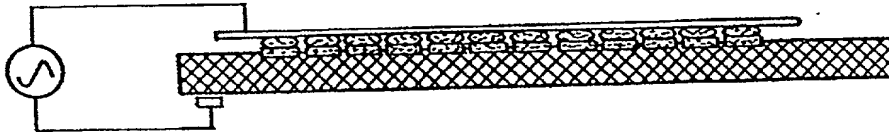


FIG. 6C

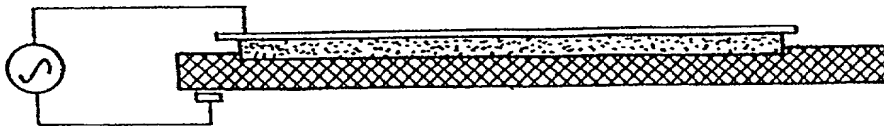
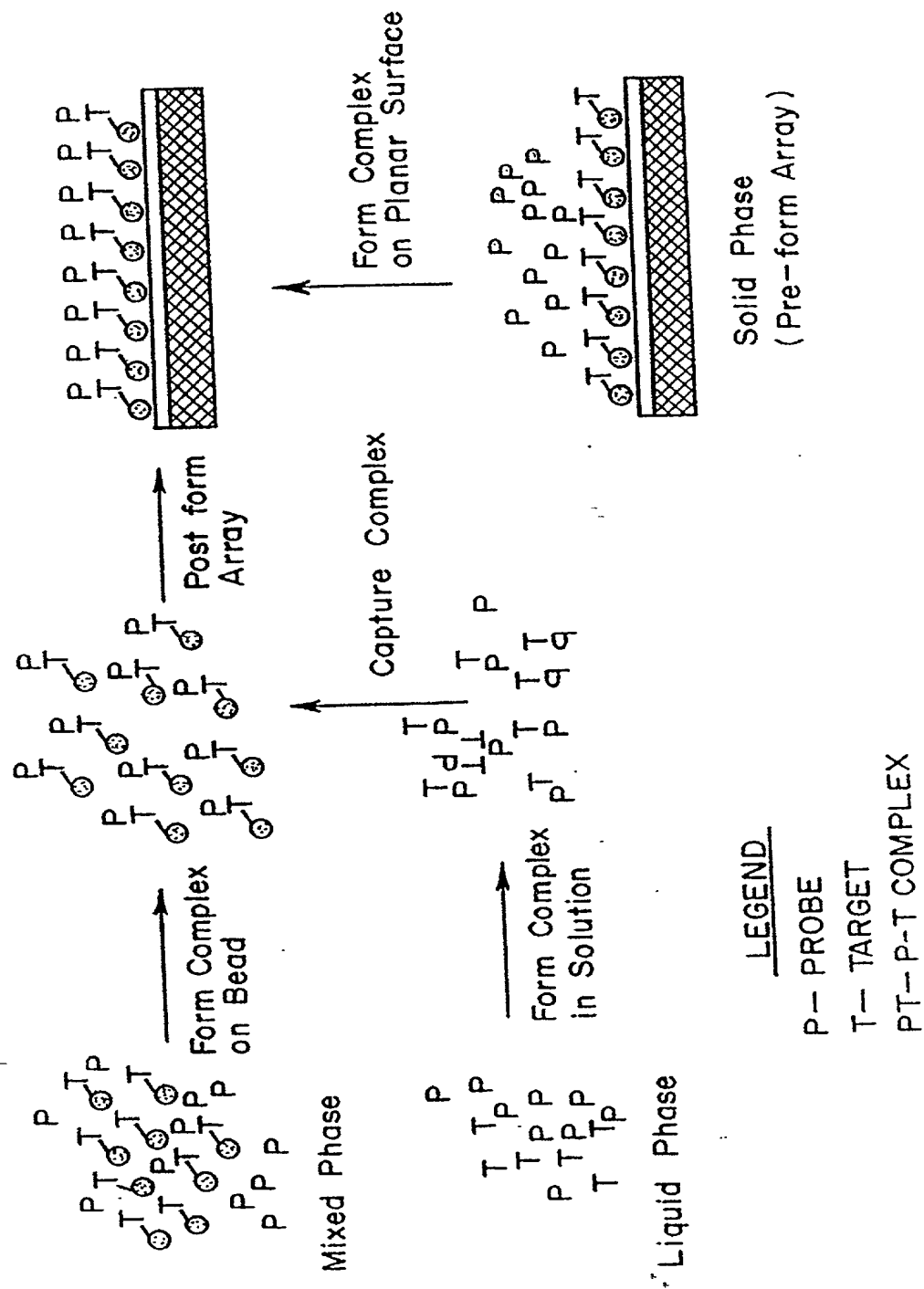




FIG. 8



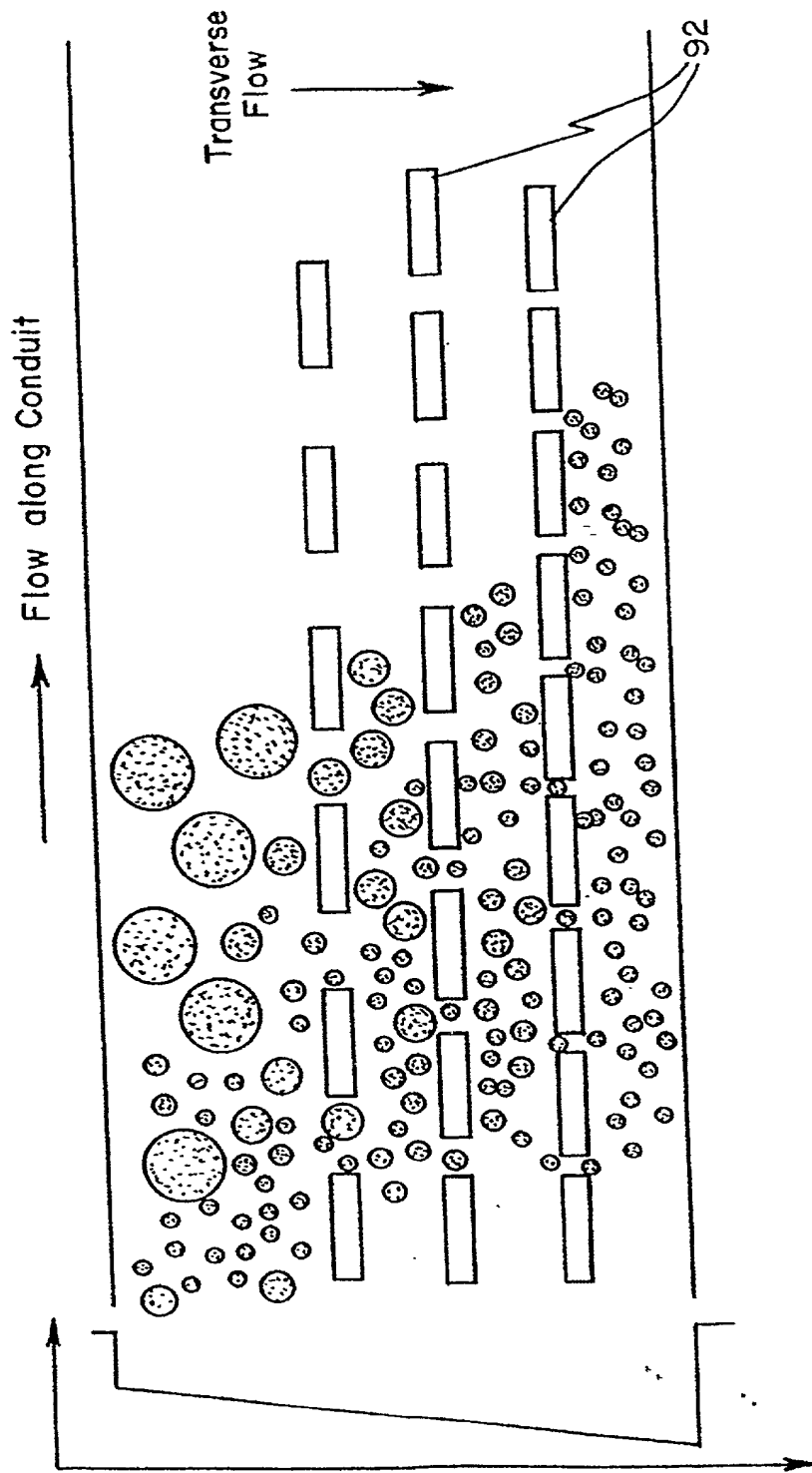


01/20593

10/36

PCT/US00/25466

FIG. 9A





01/20593

11/36

PCT/US00/25466

FIG. 9B

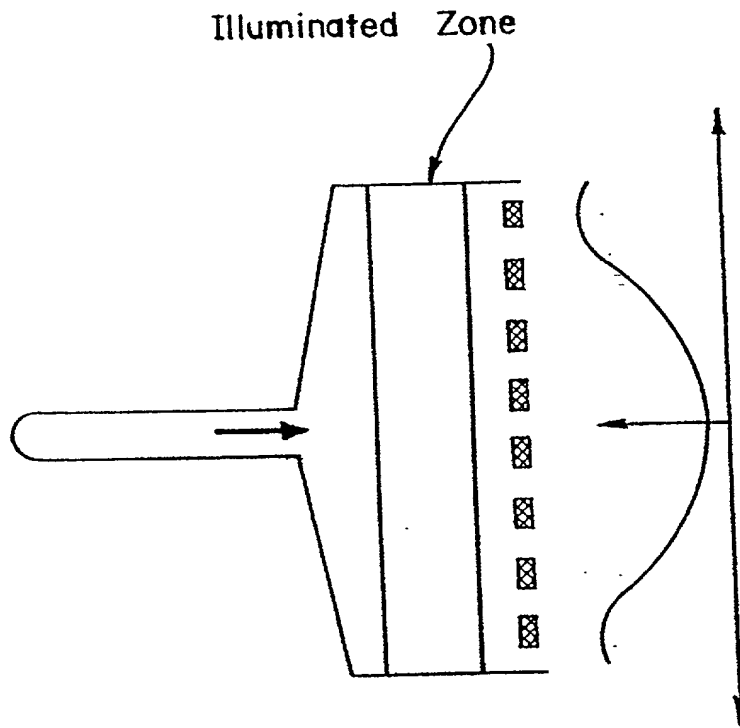


FIG. 9C



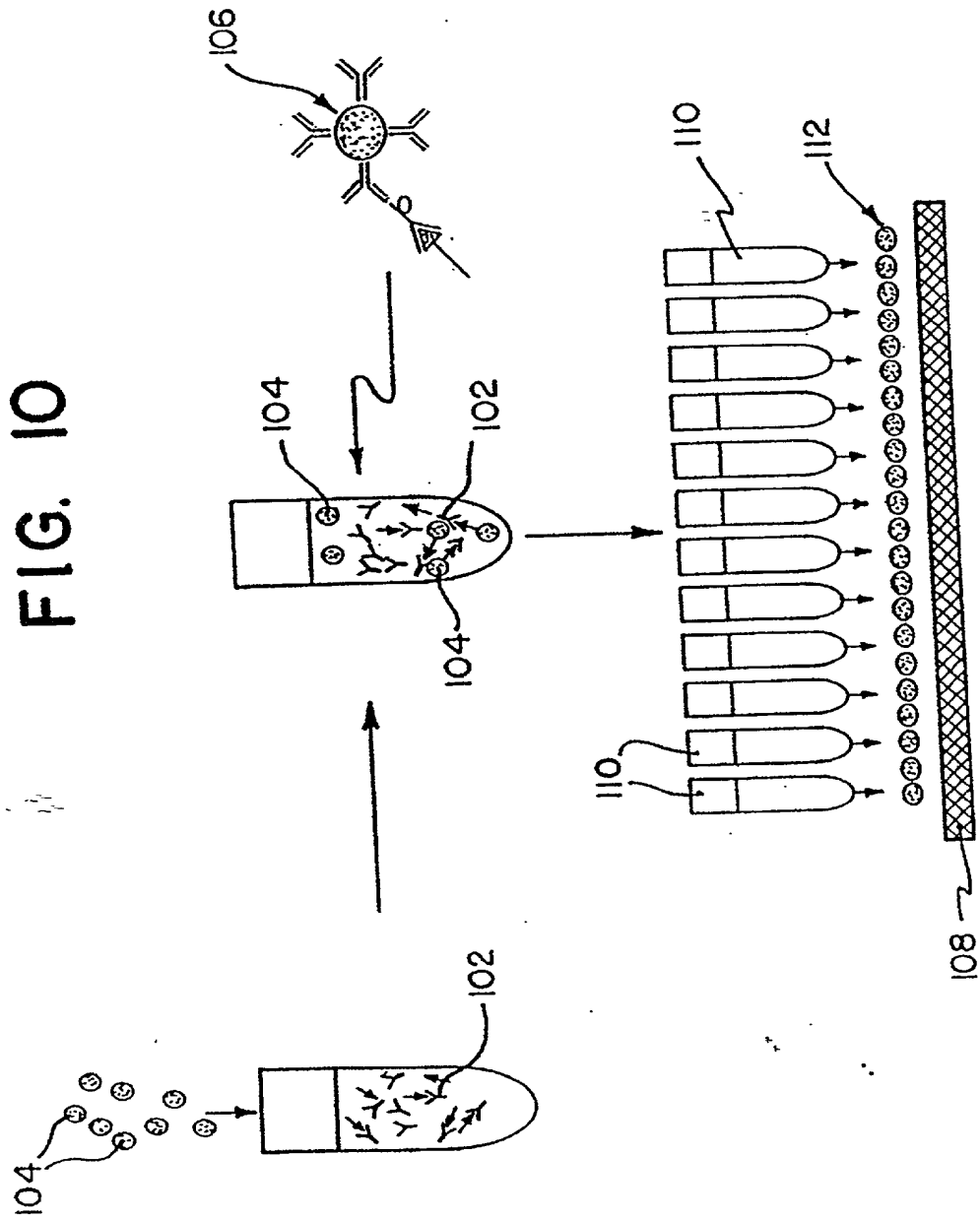


FIG. 11A

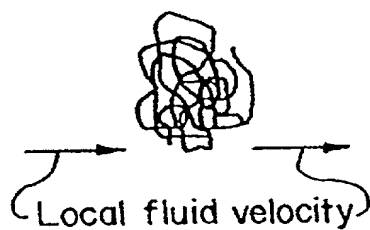


FIG. 11B

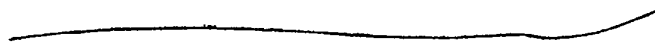


FIG. 11C

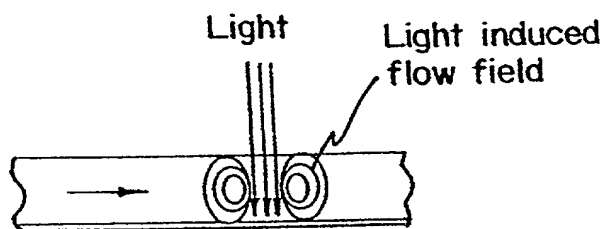


FIG. 11D

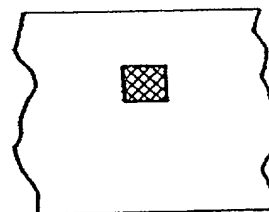
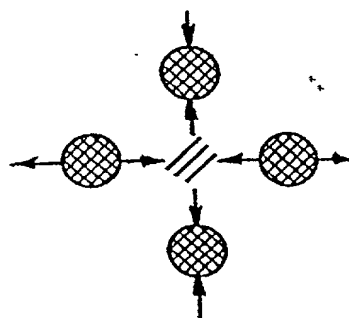


FIG. 11E



Pub. No. 4456006



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



# LCD-PARSE OPTICAL DESIGN

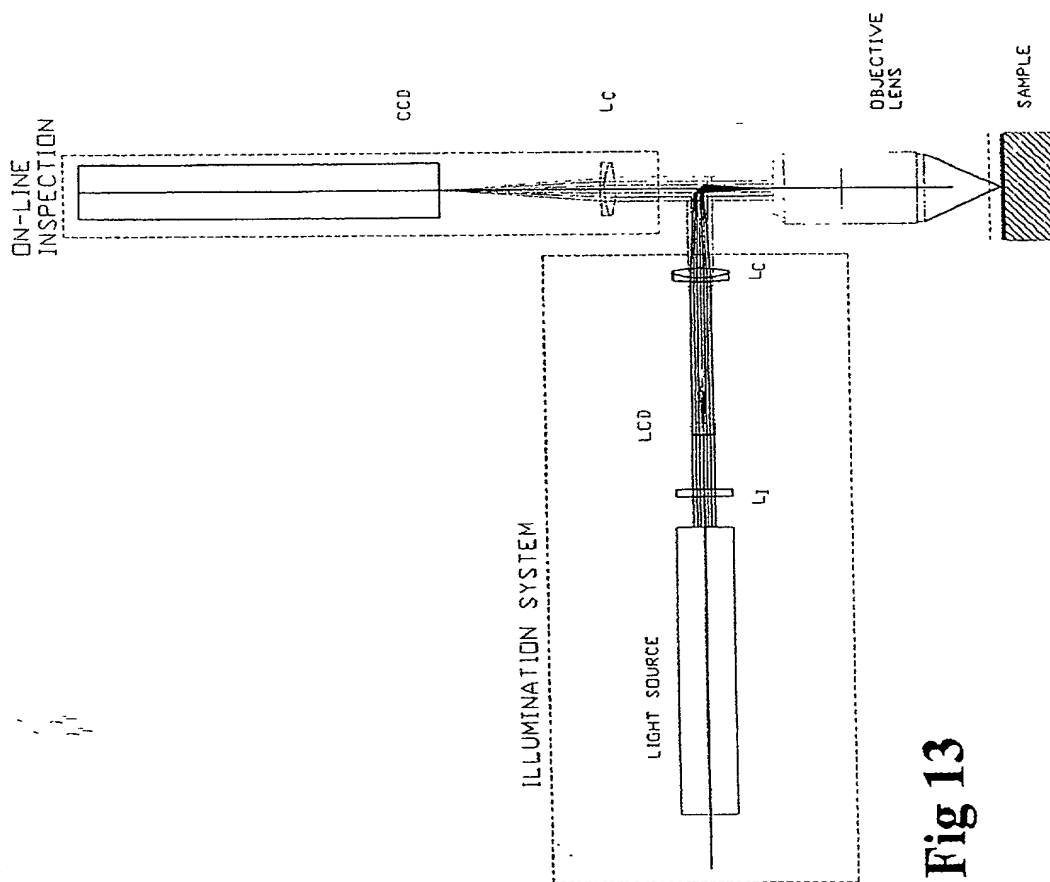


Fig 13

FIG. 14A

# ARRAY SHAPE ADJUSTMENTS

CIRCLE

HORIZONTAL LINE

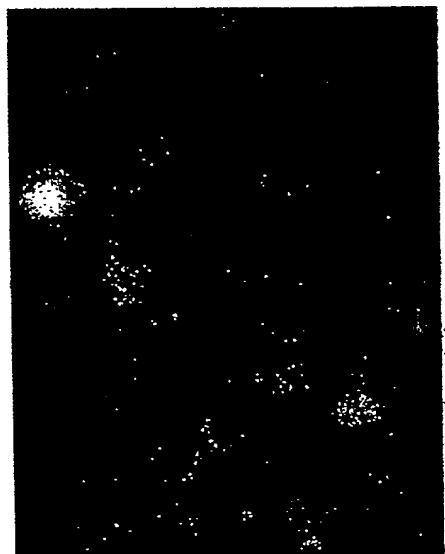
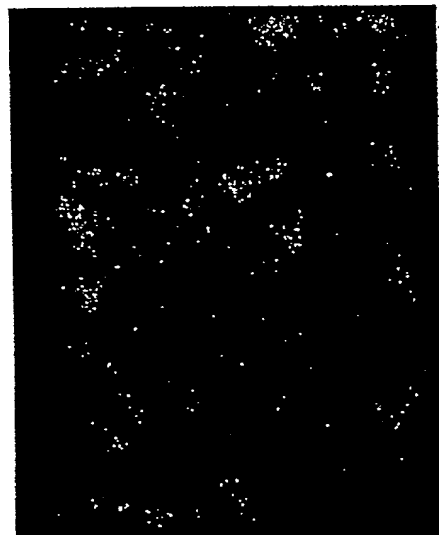


FIG. 14A

FIG. 14C

FIG. 14B

FIG. 14D

VERTICAL LINE

SQUARE







01/20593

17/36

PCT/US00/25466

COLLECTED PARTICLES

# COLLECTION AND ARRAY ASSEMBLY

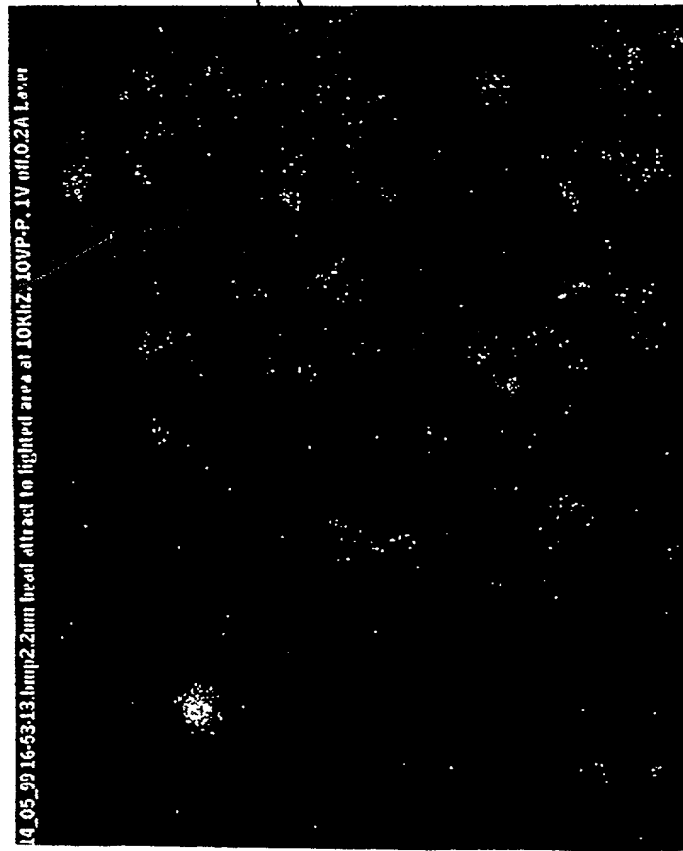


FIG. 15A

205280 40586001



# EXPULSION AND CONFINEMENT

WO/01/20593

18/36

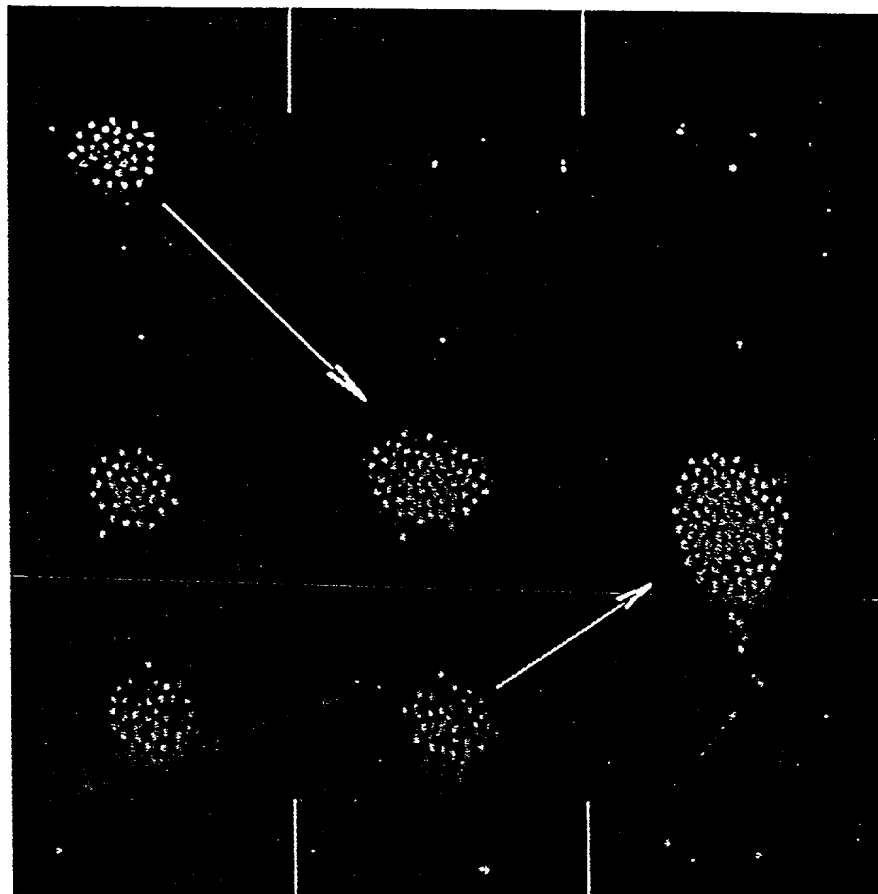
PCT/US00/25466



FIG. 15B

A circular stamp from the Office of Intellectual Property (OIPE). The text "OIPE" is at the top, "AUG 26 2002" is in the center, and "PATENT &amp; TRADEMARK" is at the bottom.

# DRAG AND DROP



*Figure 16*

Dynamic Bead Array with Labeled Subarray

Illumination of Subarray Boundary

Array Segmentation

## Figure 17

ONLY FOR THE USE OF THE PATENT OFFICE



# LCD PARSE

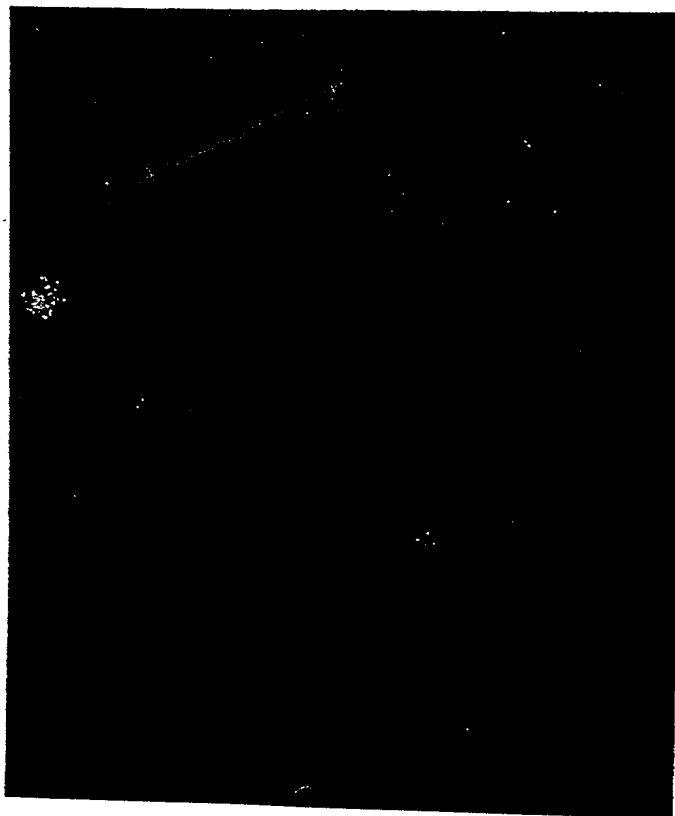


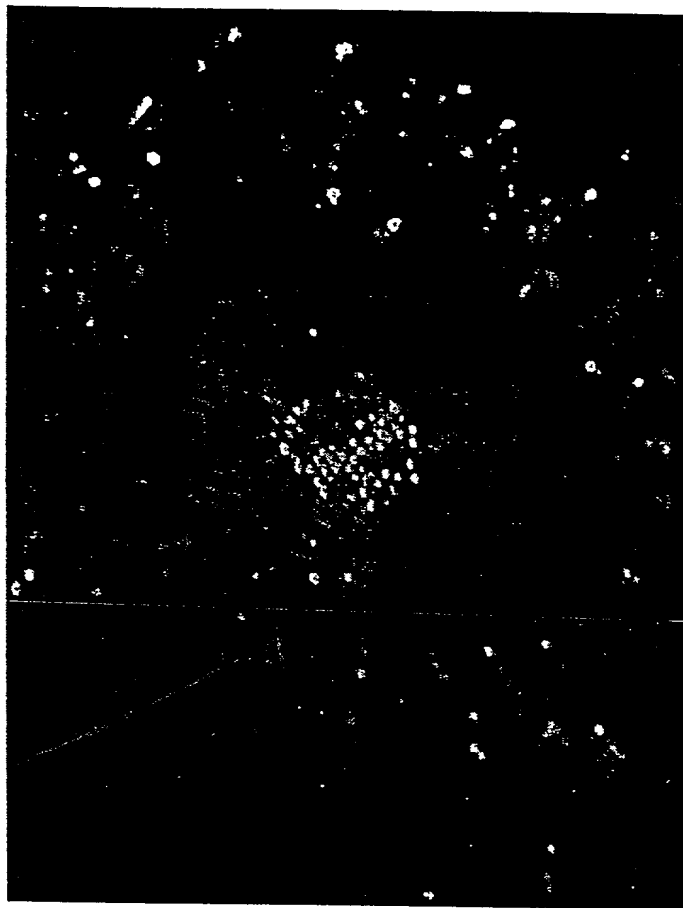
FIG. 18A

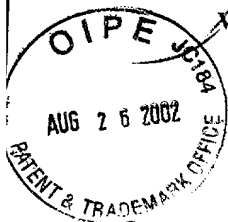


FIG. 18B

[illegible]

*Figure 19*





# FRACTIONATION

Differential Frequency Dependence of Particle Expulsion  
(NOTE:  $\omega_c$  denotes a characteristic frequency)

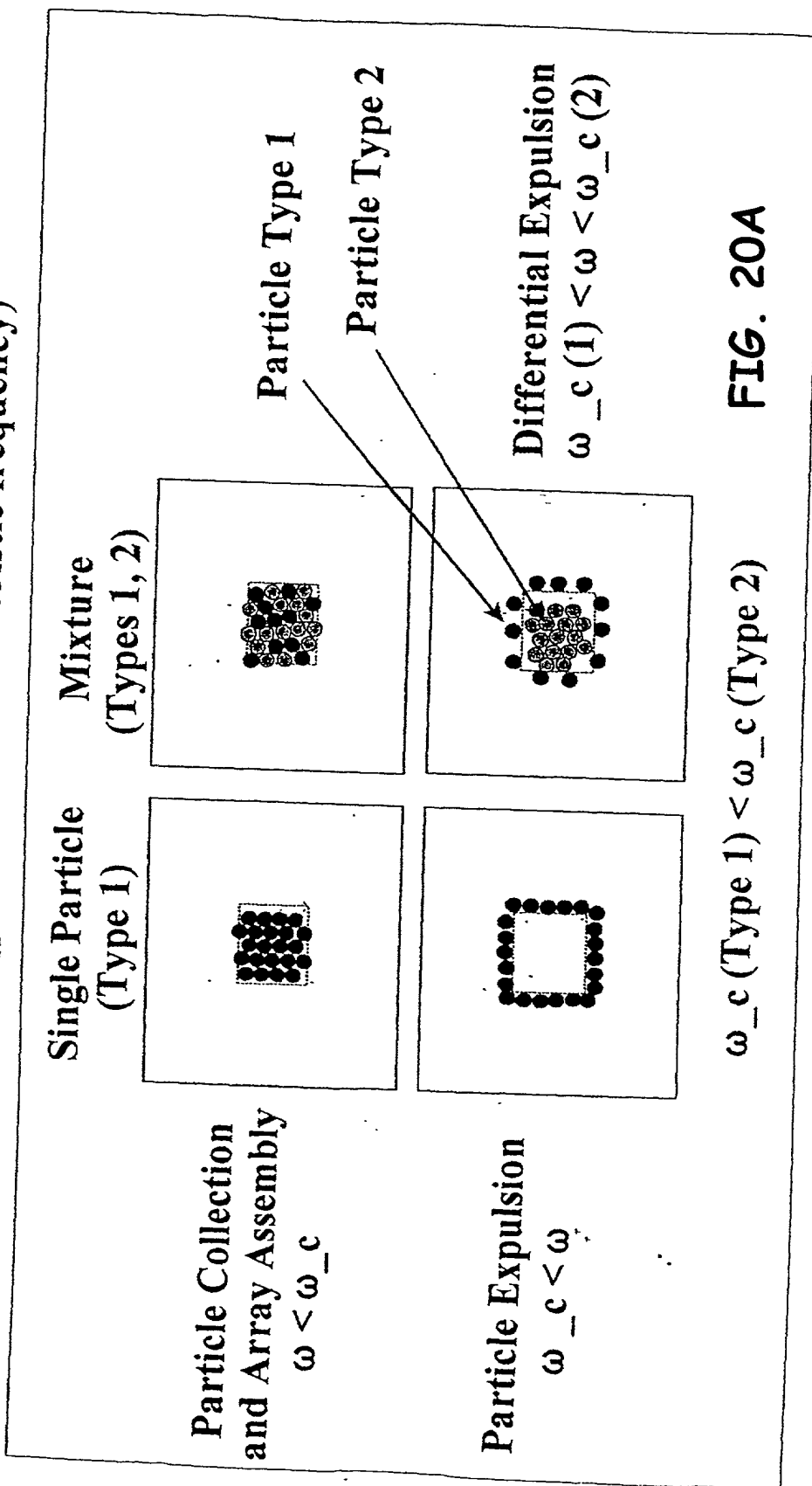
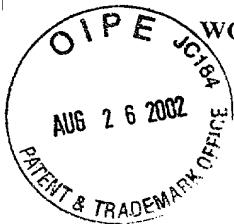


FIG. 20A



WO 01/20593

24/36

PCT/US00/25466

# FRACTIONATION

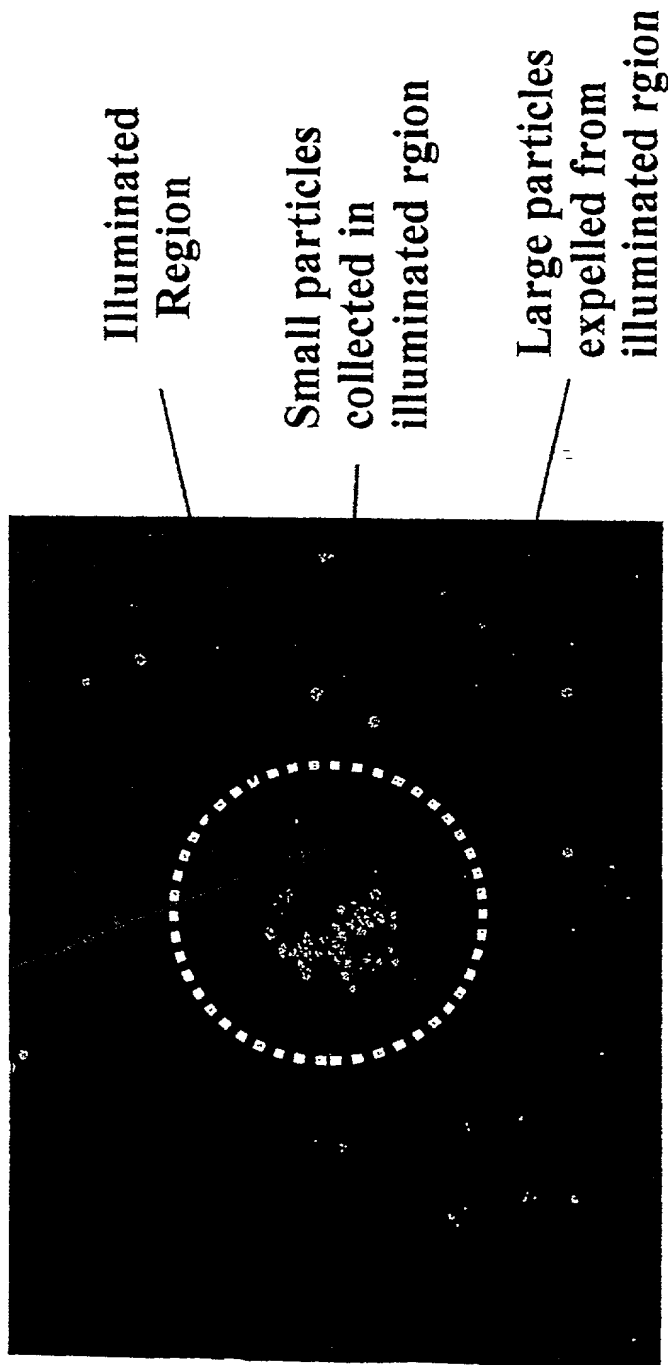


FIG. 20B





WO 01/20593

25/36

PCT/US00/25466

FIG. 21A

LCD PARSE

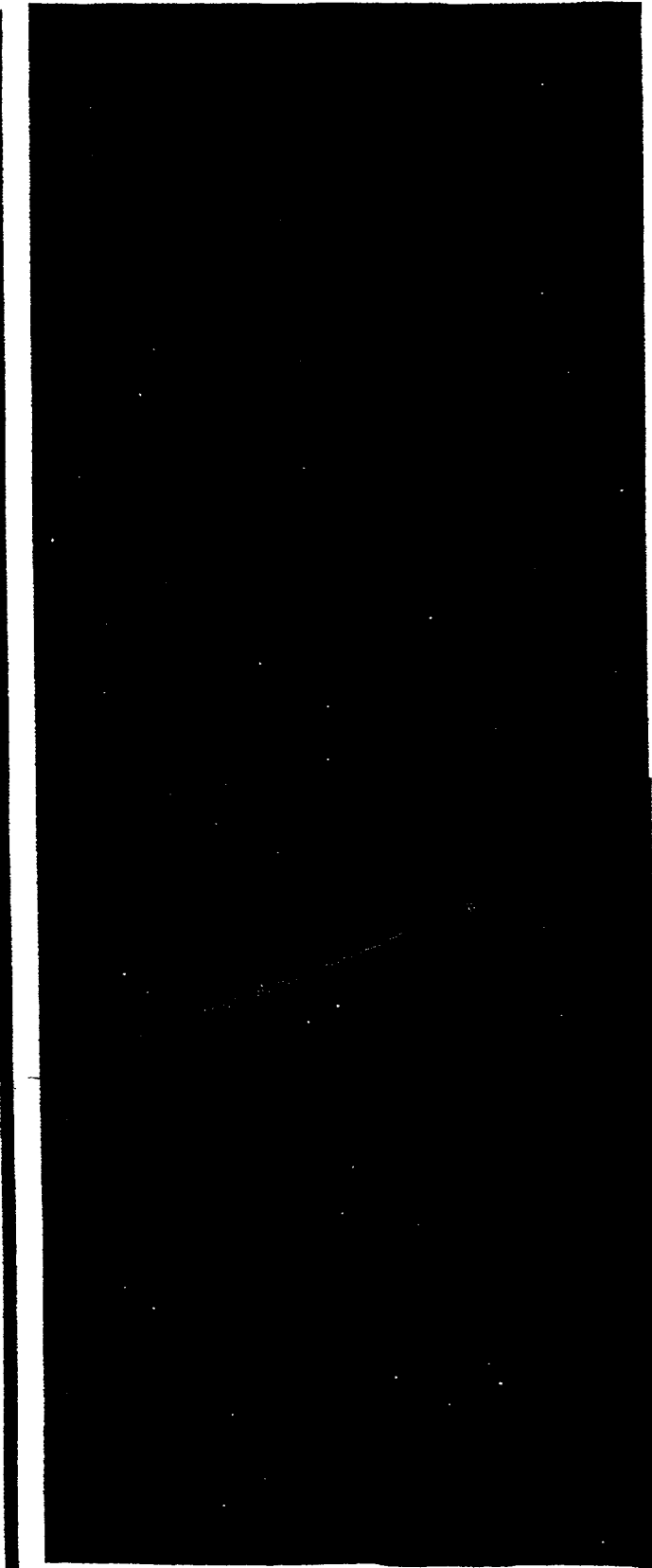
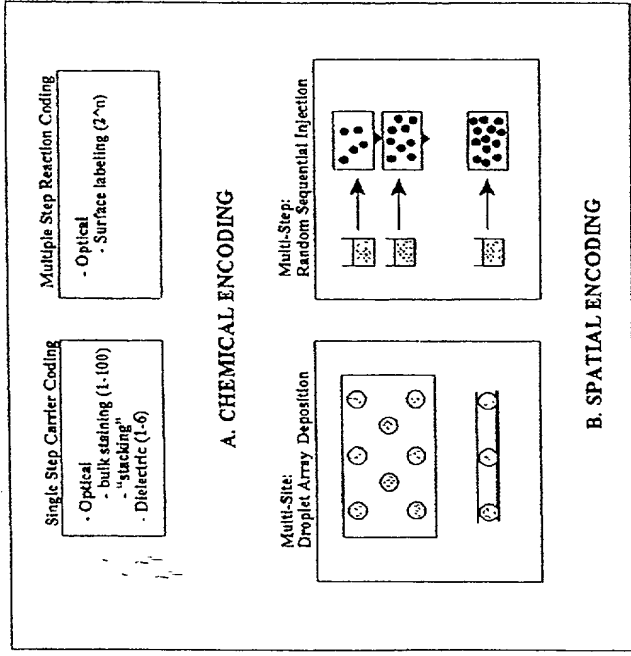


FIG. 21A

FIG. 21B

WO 01/20593  
AUG 7 6 2002  
O I P E J C 1 8 4  
AUG 2 6 2002  
PATENT & TRADEMARK OFFICE

FIG. 22A



1 - Pre-Processing

2 - Post-Processing

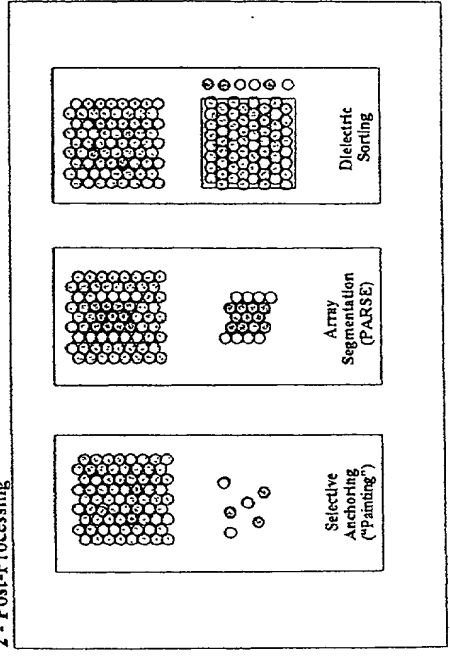
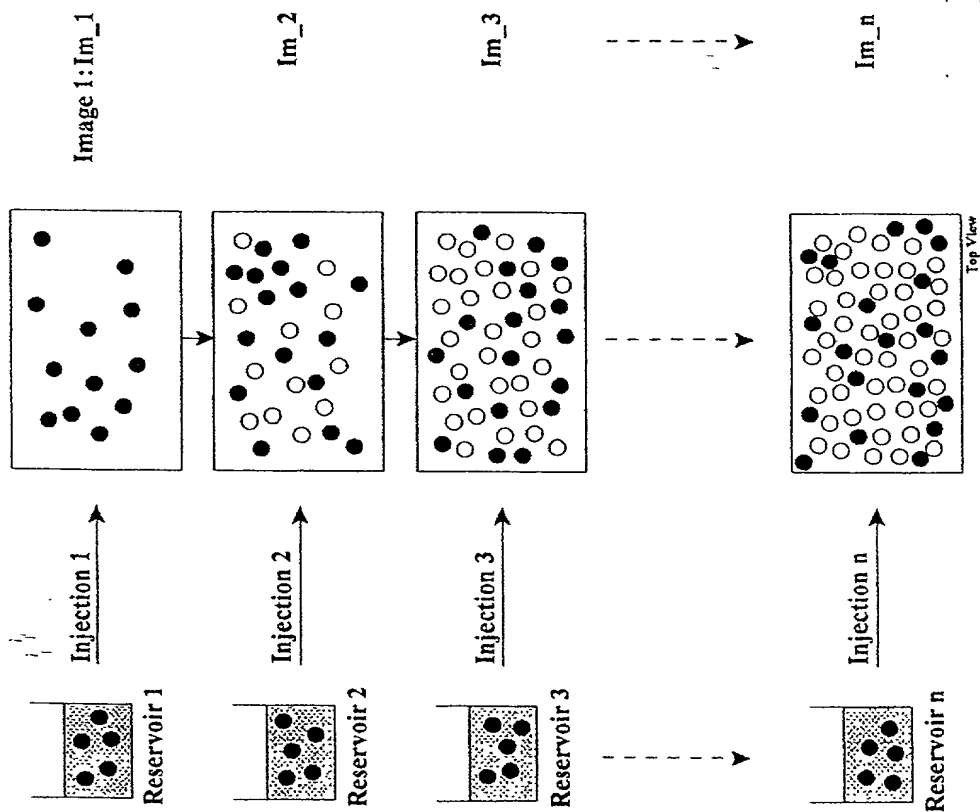
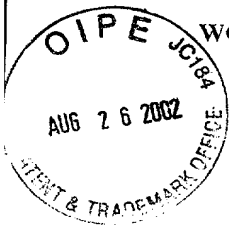


FIG. 22B

# RANDOM SEQUENTIAL INJECTION



## Figure 23



WO 01/20593

28/36

PCT/US00/25466

20020101-00000001

# SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT

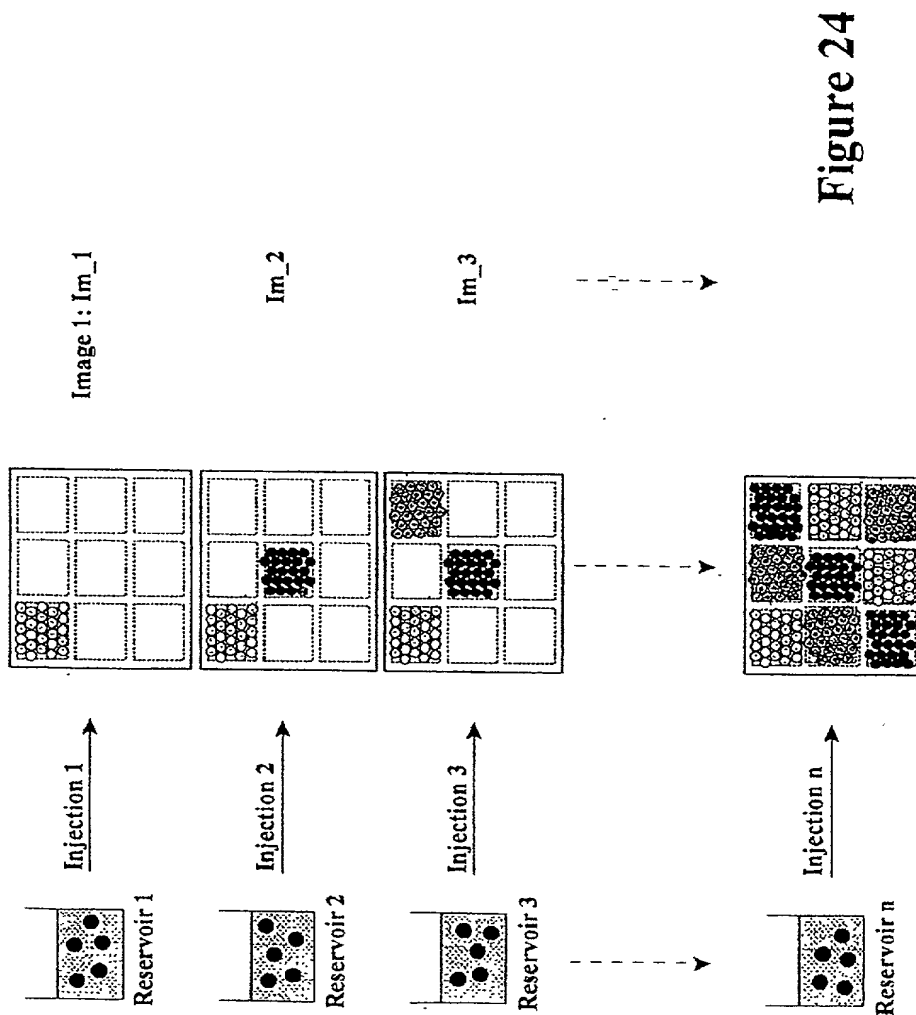


Figure 24



# MACRO-TO-MICRO TRANSITION

2001/20593

29/36

PCT/US00/25466

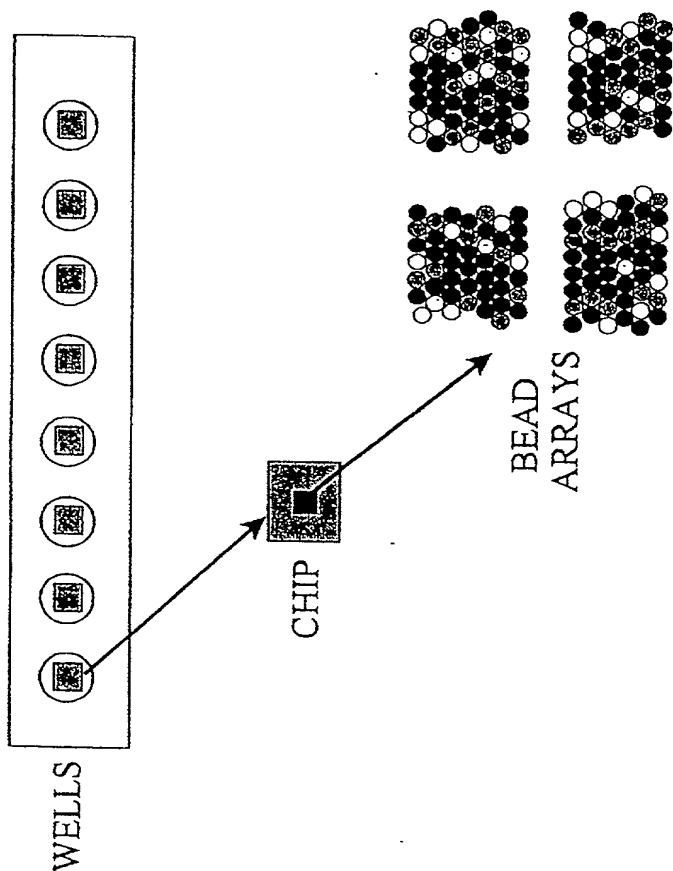


FIG. 25A



WO 01/20593

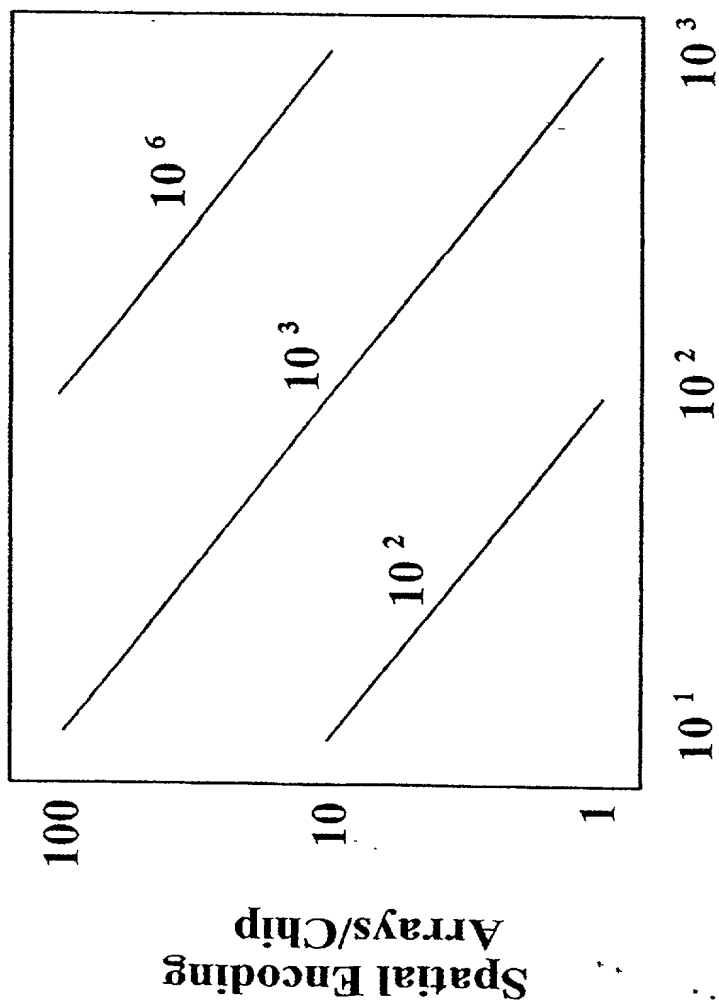
30/36

PCT/US00/25466

Chemical Encoding

# ARRAY ENCODING

Lines of Constant Array Complexity



Chemical Encoding  
Codes/Array

FIG. 25B

40566001

# ARRAY ENCODING

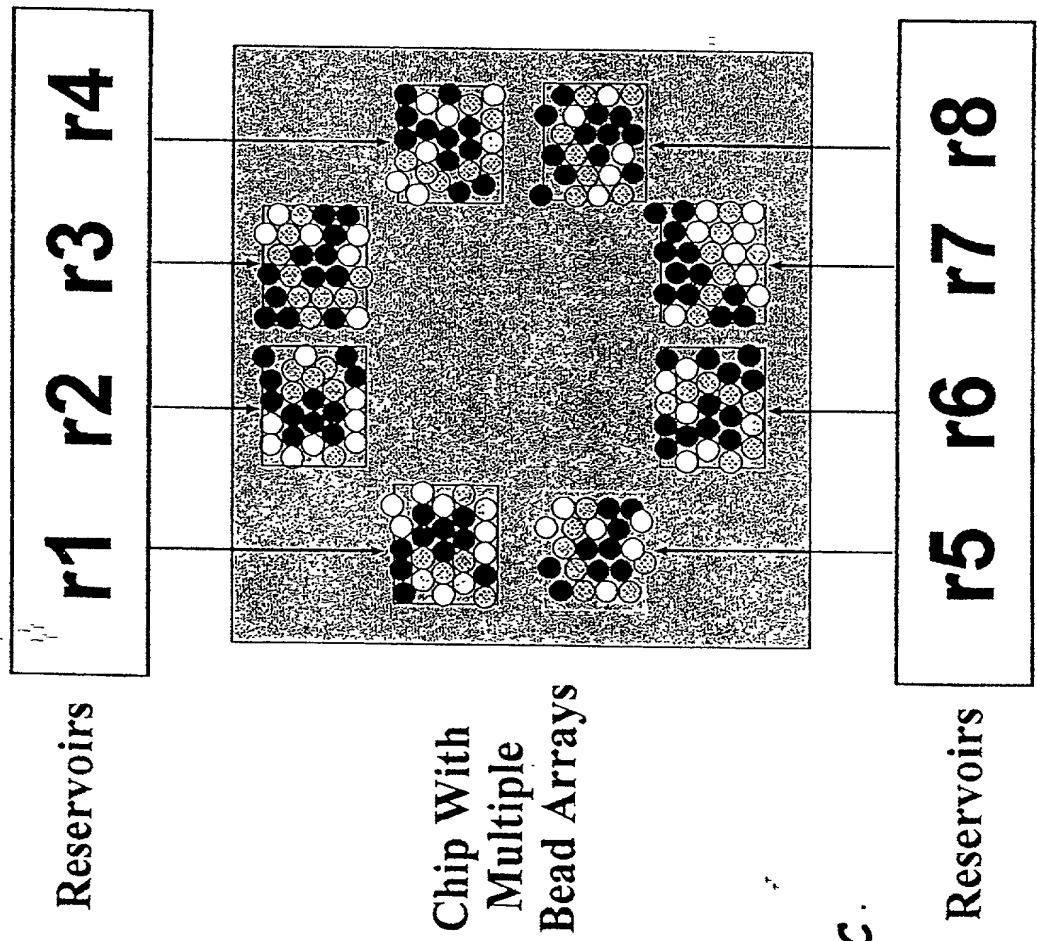
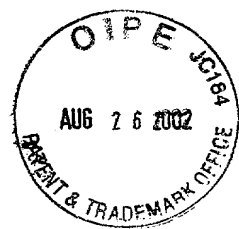


FIG. 25C.



005280 40986001

# SEQUENTIAL ASSEMBLY: "BANDING"

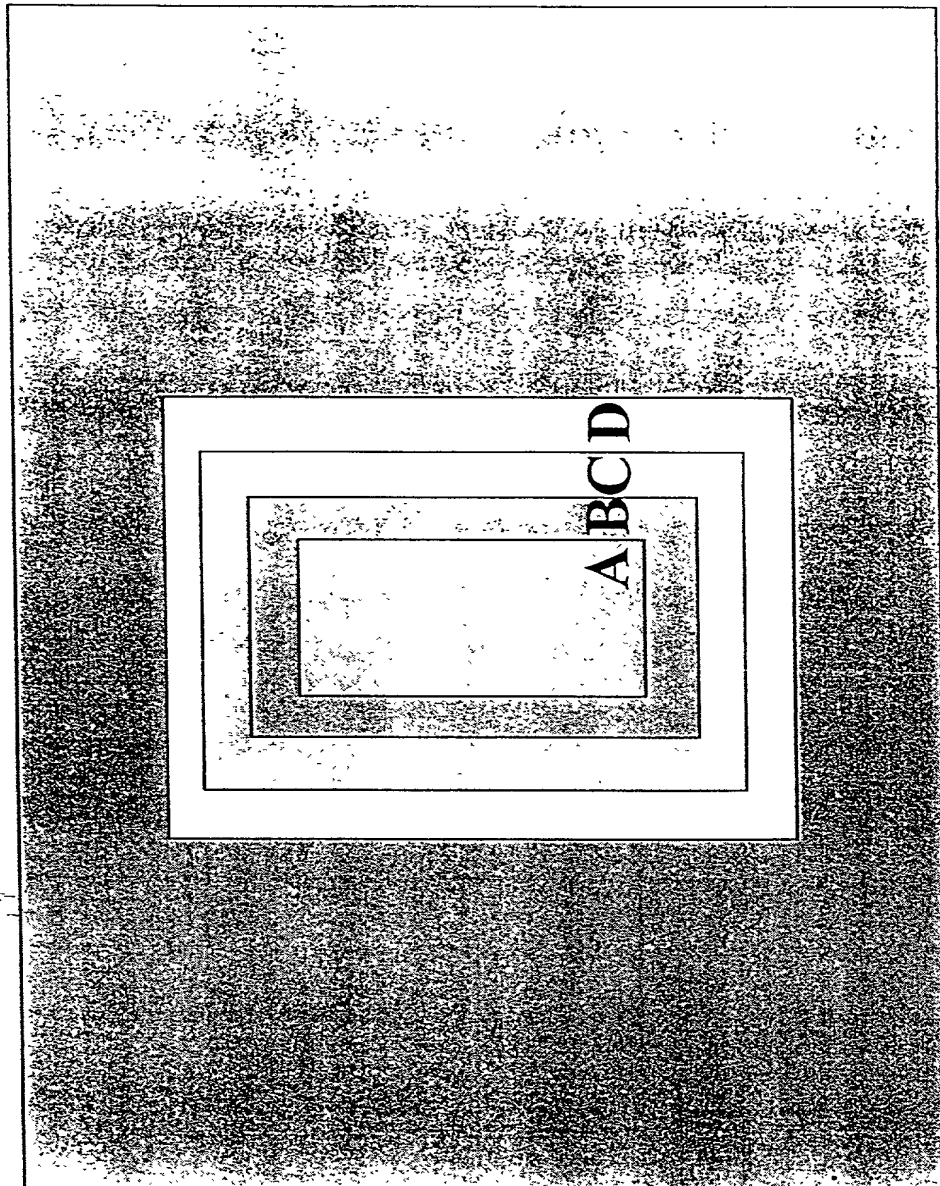


FIG. 26A



4058600

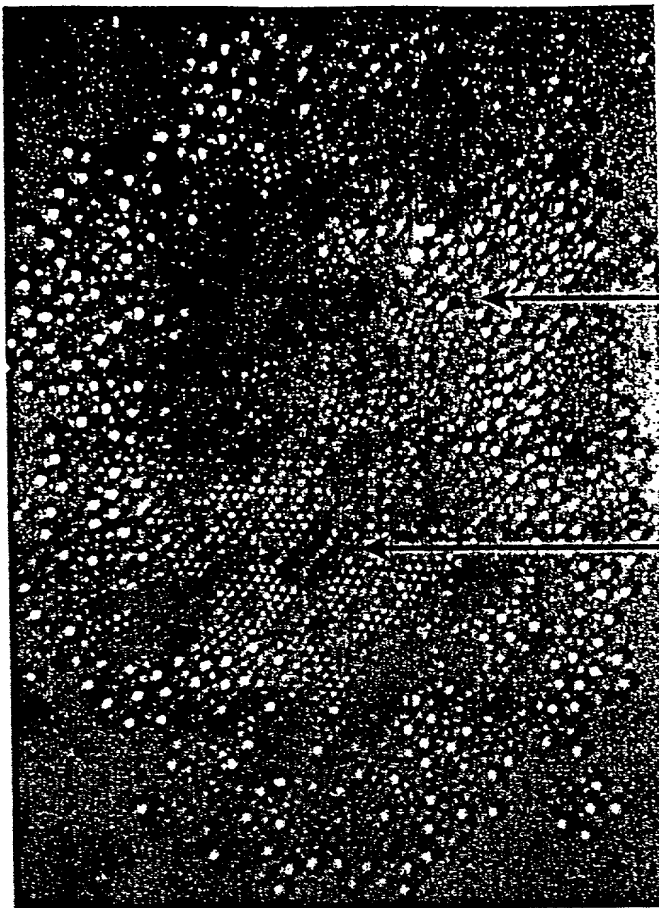
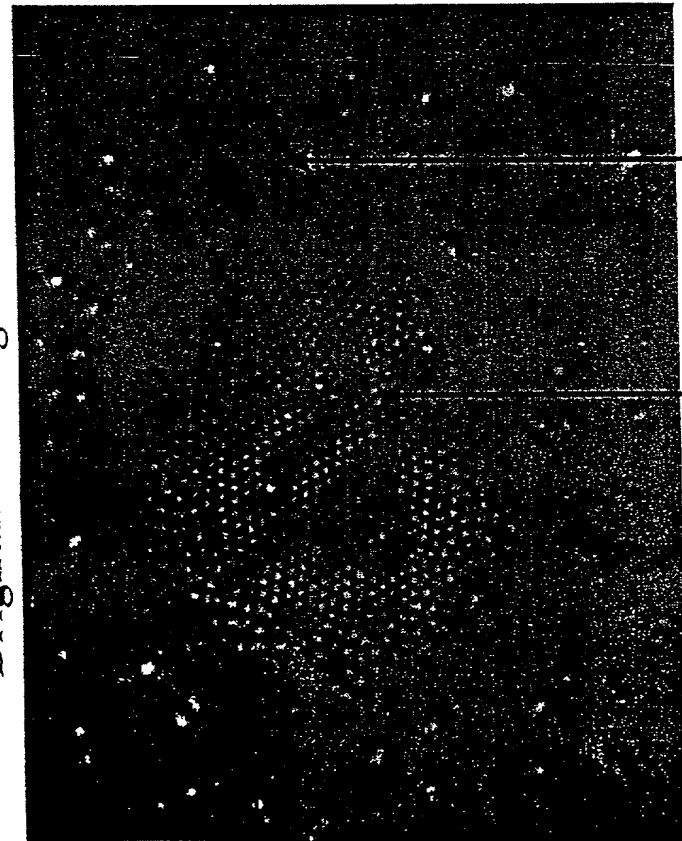


# SEQUENTIAL ASSEMBLY: "BANDING"

Mixture of Two Particle Types

Brightfield Image

Darkfield Image



2.8 μm 5.5 μm

2.8 μm 5.5 μm

FIG. 26B



20020826 10585001

LCD PARSE



Figure 27



405660001

# ARRAY OF RANDOM SUBARRAYS

## A UNIQUE TWO-DIMENSIONAL BAR CODE

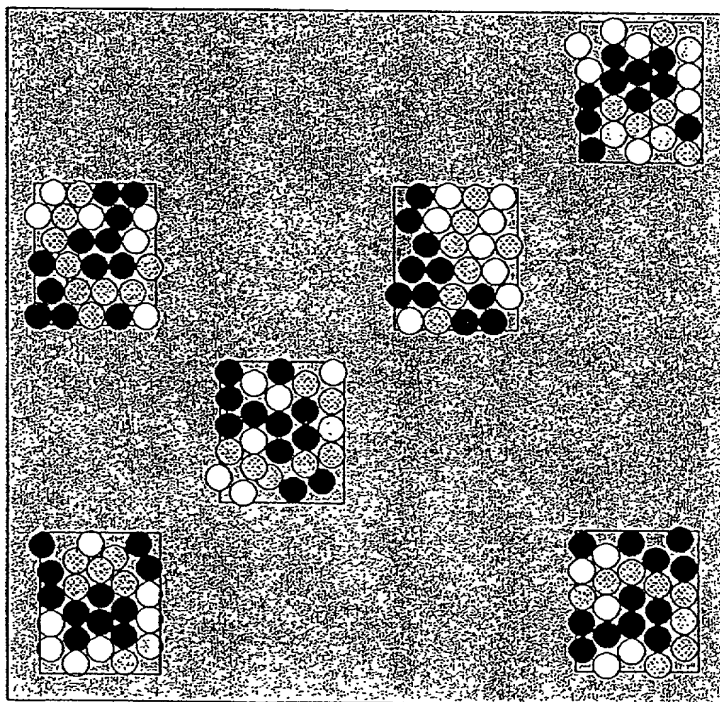
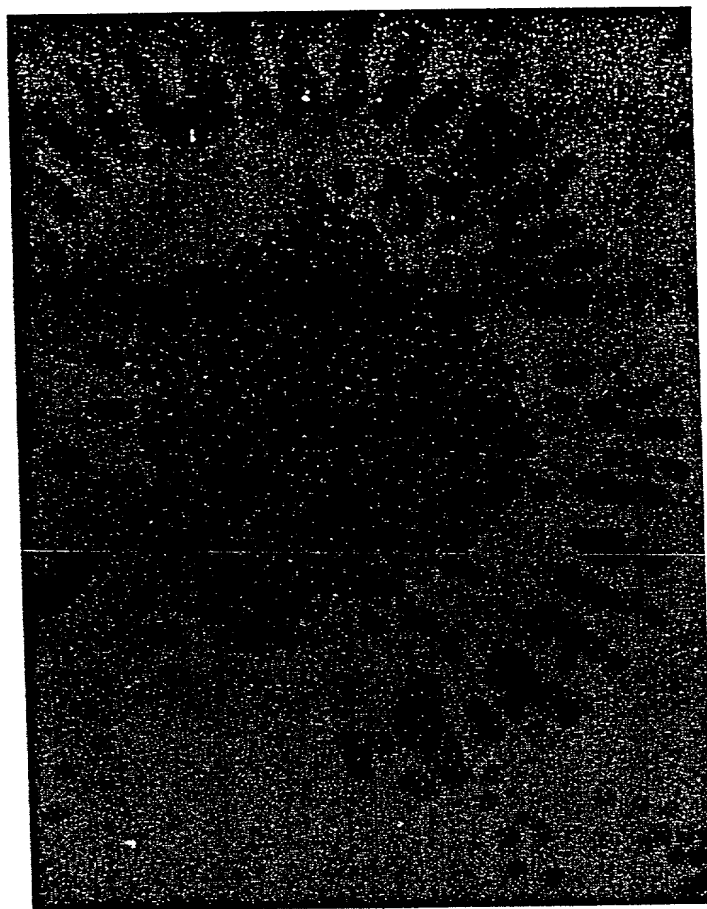


Figure 28



20020826 14:55:00

# LIGHT-INDUCED FLUID FLOW



*Figure 29*